

## Recombinant Human MPO Protein (Cys606-Ser745), N-His tagged

**Cat. No.** MPO-4594H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human MPO (Cys606-Ser745) fused with the N-His tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>    | Cys606-Ser745                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | Myeloperoxidase (MPO) is a heme protein synthesized during myeloid differentiation that constitutes the major component of neutrophil azurophilic granules. Produced as a single chain precursor, myeloperoxidase is subsequently cleaved into a light and heavy chain. The mature myeloperoxidase is a tetramer composed of 2 light chains and 2 heavy chains. This enzyme produces hypohalous acids central to the microbicidal activity of neutrophils. |
| <b>Form</b>             | Lyophilized powder/frozen liquid                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Mass</b>   | 18.04 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Purity</b>           | >90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Notes</b>            | For research use only.                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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|                       |                                                                                                                                                                                         |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>        | Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt. |
| <b>Storage Buffer</b> | 0.01M PBS, pH 7.4, 0.02% NLS                                                                                                                                                            |
| <b>Reconstitution</b> | Reconstitute in sterile water for a stock solution.                                                                                                                                     |
| <b>Shipping</b>       | They are shipped out with dry ice/blue ice unless customers require otherwise.                                                                                                          |

## GENE INFORMATION

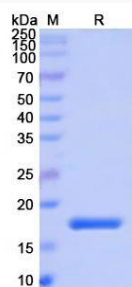
|                        |                                                              |
|------------------------|--------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">MPO myeloperoxidase [ Homo sapiens (human) ]</a> |
| <b>Official Symbol</b> | <a href="#">MPO</a>                                          |
| <b>Synonyms</b>        | MPO; myeloperoxidase; EC 1.11.2.2                            |
| <b>Gene ID</b>         | <a href="#">4353</a>                                         |
| <b>mRNA Refseq</b>     | <a href="#">NM_000250</a>                                    |
| <b>Protein Refseq</b>  | <a href="#">NP_000241</a>                                    |
| <b>MIM</b>             | <a href="#">606989</a>                                       |
| <b>UniProt ID</b>      | <a href="#">P05164</a>                                       |

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## SDS-PAGE



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